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(54) CONJUGATED LIPID CORPUSCLE WITH PROTEIN

(57)Abstract:

PURPOSE: To obtain the subject conjugated corpuscle having prolonged half-life of protein in blood to effect sufficient exhibition of the activity of the protein by bonding a protein to the surface of a lipid membrane composed of a lipid and a positively charged lipid and/or negatively charged lipid. CONSTITUTION: The objective conjugated corpuscle can be produced by bonding a protein to a surface of a lipid membrane composed of a lipid (e.g. phospholipid, glycolipid and derived lipid) and a positively charged lipid (e.g. a lipid produced by bonding a fatty acid or cholesterol to a 12–22C aliphatic amine or basic amino acid) and/or a negatively charged lipid (e.g. acidic phospholipid). The amount of the positively and/or negatively charged lipid is about 1–1,000 μ mol per 100 μ mol of the phospholipid. The combined use of a positively charged lipid and a negatively charged lipid is preferable. The amount of protein to be bonded to the lipid surface is about 0.01–10 pts.wt. based on 100 pts.wt. of lipid used in the formation of the lipid membrane.